HYGIENETECH
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
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(310) 370-8370
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September 18, 2014

California State Board of Equalization
450 N Street
Sacramento, California 94279

Document No. 21408001.1

Attention: David Gau

Regarding: Limited Fungal Growth Exposure Assessment Surveys
August 2014 Random Sampling

Dear Mr. Gau:

On August 4, 19, 25, and 29, 2014, industrial hygienists with Hygiene Technologies International, Inc. (HygieneTech) conducted limited fungal growth exposure assessment surveys involving 22 randomly selected areas located within the California State Board of Equalization (BOE) building. The findings of the surveys, along with the analytical data, conclusions, and recommendations when applicable, appear below.

On the survey dates, air samples were collected for total (viable and nonviable) fungi analyses using a Zefon brand Bio-Pump Plus™ equipped with Air-O-Cell™ cassettes. All such samples were subsequently analyzed for fungi (including yeasts, molds, rusts, smuts, and mushrooms) by trained and experienced microbiologists at a laboratory accredited by the American Industrial Hygiene Association (AIHA) and that successfully participates in the AIHA Environmental Microbiology Proficiency Analytical Testing (EMPAT) Program. The airborne fungi assessment analytical data with supporting and background information appear in the enclosed table.

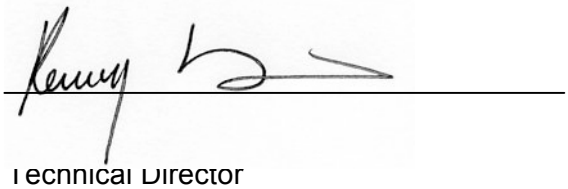
As presented in Table 21408001-1, the airborne spore count data recorded showed fungal spore types outdoors such as *Alternaria*, ascospores, basidiospores, *Chaetomium*, C*ladosporium*, colorless spores typical of *Penicillium*/*Aspergillus* species, *Curvularia*, *Epicoccum*, *Oidium,* other brown*, Pithomyces,* rusts, smuts, and/or *Stachybotrys*. In the indoor areas tested, the data showed that airborne fungal spores were either not detected at or above the laboratory detection limit indicated or were detected at low airborne concentrations. The fungal spore types found indoor included *Alternaria*, ascospores, basidiospores, *Chaetomium*, *Cladosporium*, colorless spores typical of *Penicillium*/*Aspergillus* species, *Curvularia*, *Epicoccum*, *Oidium*, other brown*,* rusts, smuts*,* and/or *Torula*. The distribution of fungal spore types detected in the surveyed areas was consistent with those found outdoors, and the overall data within the tested areas were well below the overall outdoor data recorded. These data are considered unremarkable and are not believed to pose a health risk beyond that posed by the outdoor environment where exposures to airborne fungi are expected.

Be advised that the data provided in this report only represent limited fungal growth and exposure potentials that existed at the time these surveys were performed and at the precise sample locations indicated. Note that fungal growth and exposure potentials may change due to changes in environmental conditions (such as those caused by water intrusion), use of mechanical systems, or other factors. Also be advised that additional fungal growth may exist at one or more locations in the structure that were not specifically assessed during the surveys.

If you have any comments or questions regarding the information contained in this correspondence, please feel free to contact our offices directly at (310) 370-8370.

Sincerely,

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.



Technical Director

HYGIENE TECHNOLOGIES INTERNATIONAL, INC.

APPENDIX A

CLIENT: California State Board of Equalization
450 N Street
Sacramento, California 94279

TABLE 21408001-1
AIRBORNE TOTAL FUNGI RESULTS
450 N STREET
SACRAMENTO, CALIFORNIA
AUGUST 4, 19, 25, AND 29, 2014

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**21408001-1 TM01OUT**	**21408001-1 TM02**	**21408001-1 TM03**	**21408001-1 TM04**
SAMPLING LOCATION/ACTIVITIES	Outdoors; about 15 feet west of building; approximately five feet above ground/Normal outdoor activities	3rd Floor; Room 317; Reception area; about center; approximately five feet above floor/Normal office activities	7th Floor; Conference Room 709; about five feet west of entry door; approximately five feet above floor/Normal office activities	14th Floor; Mail/Storage Room 14B; about center; approximately five feet above floor/Normal office activities
DATE	08/04/14	08/04/14	08/04/14	08/04/14
START/STOP	14:41:00/14:46:00	14:50:00/14:55:00	14:58:00/15:03:00	15:08:00/15:13:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	40	13		
Ascospores	160			
Basidiospores	530			
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	40			
Cladosporium	1,500	53		
Curvularia	53			
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other brown				
Other colorless				
Penicillium/Aspergillus types	53	53		
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)	110	13		27
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	67	<13	<13	<13
Background debris*	2+	2+	2+	2+
TOTAL**	2,500	80	<13	27

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

**Note that all reported counts have been rounded to no more than two significant figures based on the sampling and analytical methods used, and therefore the total count may not equal the sum of the individual counts in a column.

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450 N STREET
SACRAMENTO, CALIFORNIA
AUGUST 4, 19, 25, AND 29, 2014

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21408001-1 TM05	21408001-1 TM06	21408001-1 TM07OUT	21408001-1 TM08
SAMPLING LOCATION/ACTIVITIES	19th Floor; Column K17 area; Cubicle 26; entry area; approximately five feet above floor/Normal office activities	22nd Floor; Column K18 area; about seven feet northeast of Column K18 approximately five feet above floor/Normal office activities	Outdoors; about 15 feet east of building; approximately five feet above ground/Normal outdoor activities	5th Floor; Break Room 514; about five feet southwest of entry door; approximately five feet above floor/Normal office activities
DATE	08/04/14	08/04/14	08/19/14	08/19/14
START/STOP	15:17:00/15:22:00	15:29:00/15:34:00	15:03:00/15:08:00	15:27:00/15:32:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			240	
Ascospores			1,000	
Basidiospores			1,400	
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium			4,400	
Curvularia				
Epicoccum			13	
Fusarium				
Nigrospora				
Oidium			53	
Other brown				
Penicillium/Aspergillus types			53	
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)			170	
Stachybotrys				
Stemphylium				
Torula				
Trichocladium				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	150	<13
Background debris*	2+	2+	2+	2+
TOTAL**	<13	<13	7,400	<13

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SACRAMENTO, CALIFORNIA
AUGUST 4, 19, 25, AND 29, 2014

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21408001-1 TM09	21408001-1 TM10	21408001-1 TM11	21408001-1 TM12
SAMPLING LOCATION/ACTIVITIES	6th Floor; Column K18 area; Cubicle 45; approximately five feet above floor/Normal office activities	9th Floor; Column K17 area; Cubicle 9; about five feet east of entrance; approximately five feet above floor/Normal office activities	15th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities	16th Floor; Column J18; Cubicle 28; southeast corner; approximately five feet above floor/Normal office activities
DATE	08/19/14	08/19/14	08/19/14	08/19/14
START/STOP	15:37:00/15:42:00	15:47:00/15:52:00	15:56:00/16:01:00	16:03:00/16:08:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	13	13		
Arthrinium				
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		53		
Curvularia				
Epicoccum				
Fusarium				
Nigrospora				
Oidium				
Other colorless		13		
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)				
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	13	<13
Background debris*	1+	2+	2+	2+
TOTAL**	13	80	<13	<13

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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AUGUST 4, 19, 25, AND 29, 2014

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	**21408001-1 TM13**	**21408001-1 TM14OUT**	**21408001-1 TM15**	**21408001-1 TM16**
SAMPLING LOCATION/ACTIVITIES	20th Floor; Column K18 area; about five feet north of Column K18; approximately five feet above floor/Normal office activities	Outdoors; about 15 feet northeast of building; approximately five feet above floor/Normal outdoor activities	2nd Floor; Column M18 area; about 10 feet northeast of Column M18; approximately five feet above floor/Normal office activities	8th Floor; Elevator Lobby; about center; approximately five feet above floor/Normal office activities
DATE	08/19/14	08/25/14	08/25/14	08/25/14
START/STOP	16:11:00/16:16:00	08:50:00/08:55:00	08:59:00/09:04:00	09:07:00/09:12:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria		13		
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium		40		
Cladosporium	53	640		53
Curvularia				
Epicoccum				
Nigrospora				
Oidium	13			
Other brown				13
Other colorless				
Penicillium/Aspergillus types		1,100		
Pithomyces				
Rusts		13		
Smuts (Periconia, Myxomycetes)		410		
Stachybotrys		13		
Stemphylium				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	<13
Background debris*	2+	2+	1+	2+
TOTAL**	67	2,200	<13	67

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AUGUST 4, 19, 25, AND 29, 2014

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21408001-1 TM17	21408001-1 TM18	21408001-1 TM19	21408001-1 TM20OUT
SAMPLING LOCATION/ACTIVITIES	11th Floor; Column L22; about 10 feet southwest of Column L22; approximately five feet above floor/Normal office activities	17th Floor; Column K18 area; about one foot west of Column K18; approximately five feet above floor/Normal office activities	18th Floor; Column N22 area; about six feet east of Column N22; approximately five feet above floor/Normal office activities	Outdoors; about 10 feet southeast of building; approximately five feet above ground/Normal outdoor activities
DATE	08/25/14	08/25/14	08/25/14	08/29/14
START/STOP	09:17:00/09:22:00	09:27:00/09:32:00	09:36:00/09:41:00	15:57:00/16:02:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria			13	80
Ascospores				210
Basidiospores				530
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				13
Cladosporium		53		3,800
Curvularia				13
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown				13
Penicillium/Aspergillus types				370
Pithomyces				27
Rusts				
Smuts (Periconia, Myxomycetes)			13	
Stemphylium				
Stachybotrys				
Torula				
Ulocladium				
Zygomycetes				
Hyphal fragments	<13	<13	<13	67
Background debris*	2+	2+	2+	3+
TOTAL**	<13	53	27	5,100

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AUGUST 4, 19, 25, AND 29, 2014

Results reported in spores per cubic meter of air (spores/M^3)

SAMPLE NUMBER	21408001-1 TM21	21408001-1 TM22	21408001-1 TM23	21408001-1 TM24
SAMPLING LOCATION/ACTIVITIES	1st Floor; Mail Room 143 ; about center; approximately five feet above floor/Normal office activities	4th Floor; south corridor; about five feet south of Freight Elevator; approximately five feet above floor/Normal office activities	10th Floor; Break Room 1004; about center; approximately five feet above floor/Normal office activities	21st Floor; about 15 feet north of Column K18; approximately feet above floor/Sampling activities only
DATE	08/29/14	08/29/14	08/29/14	08/29/14
START/STOP	09:29:00/09:34:00	16:15:00/16:20:00	16:22:00/16:27:00	16:39:00/16:44:00
SAMPLE TIME	5 minutes	5 minutes	5 minutes	5 minutes
Alternaria	53		40	
Ascospores				
Basidiospores				
Bipolaris/Drechslera group				
Botrytis				
Chaetomium	53			
Cladosporium	270	160	270	
Curvularia				
Epicoccum				
Fusarium				
Myrothecium				
Nigrospora				
Oidium				
Other brown		13	13	
Penicillium/Aspergillus types				
Pithomyces				
Rusts				
Smuts (Periconia, Myxomycetes)		13		
Stachybotrys				
Stemphylium				
Torula				
Ulocladium				
Hyphal fragments	<13	<13	<13	<13
Background debris*	2+	2+	2+	1+
TOTAL**	370	190	320	<13

*Background debris is an indication of the amount of non-biological particulate matter present on the slide and is graded (from least to greatest) as 1+ to 4+.

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SACRAMENTO, CALIFORNIA
AUGUST 4, 19, 25, AND 29, 2014

SAMPLE NUMBER	21408001-1 TM25	21408001-1 TM26		
SAMPLING LOCATION/ACTIVITIES	23rd Floor; Room 2314; Reception Area; about center; approximately five feet above floor/Normal office activities	24th Floor; Room 2447; about center; approximately five feet above floor/Normal office activities	This column intentionally left blank	This column intentionally left blank
DATE	08/29/14	08/29/14		
START/STOP	16:47:00/16:52:00	16:55:00/17:00:00		
SAMPLE TIME	5 minutes	5 minutes		
Alternaria	27	40		
Ascospores		110		
Basidiospores	53	53		
Bipolaris/Drechslera group				
Botrytis				
Chaetomium				
Cladosporium		210		
Curvularia		13		
Epicoccum		13		
Helicoma				
Myrothecium				
Nigrospora				
Oidium				
Other brown		13		
Penicillium/Aspergillus types				
Pithomyces				
Rusts		13		
Smuts (Periconia, Myxomycetes)		27		
Stachybotrys				
Stemphylium				
Torula		13		
Ulocladium				
Hyphal fragments	<13	13		
Background debris*	2+	2+		
TOTAL**	80	510		

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EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21408001-1
EML ID: 1242895

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 08-06-2014

Service SOPs: Spore trap analysis (1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-04-2014
Date of Receipt: 08-05-2014
Date of Report: 08-06-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21408001-1 TM01 OUT		21408001-1 TM02		21408001-1 TM03	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5655238-1		5655239-1		5655240-1	
Analysis Date:	08/06/2014		08/06/2014		08/06/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	3	40	1	13		
Ascospores	3	160				
Basidiospores	10	530				
Botrytis						
Chaetomium	3	40				
Cladosporium	29	1,500				
Curvularia	4	53				
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†	1	53	1	53		
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	8	110	1	13		
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	67		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		2,500		80		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
880 Riverside Parkway, West Sacramento, CA 95605
(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-04-2014
Date of Receipt: 08-05-2014
Date of Report: 08-06-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21408001-1 TM04		21408001-1 TM05		21408001-1 TM06	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5655241-1		5655242-1		5655243-1	
Analysis Date:	08/06/2014		08/06/2014		08/06/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Botrytis						
Chaetomium						
Cladosporium						
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes	2	27				
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		27		< 13		< 13

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-04-2014
Date of Receipt: 08-05-2014
Date of Report: 08-06-2014

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21408001-1 TM01 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California† (n‡=17974)						Typical Outdoor Data for: The entire year in California† (n‡=200710)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	40	13	13	27	53	93	59	13	13	27	67	110	53
Bipolaris/Drechslera group	-	9	13	13	27	50	16	7	13	13	27	40	12
Chaetomium	40	10	13	13	27	53	24	8	13	13	27	47	19
Cladosporium	1,500	160	270	690	1,600	2,500	99	110	210	610	1,600	2,800	97
Curvularia	53	8	13	13	27	53	12	7	13	13	27	53	6
Nigrospora	-	7	13	13	27	53	12	7	13	13	27	53	8
Penicillium/Aspergillus types	53	53	110	270	670	1,100	88	53	100	210	590	1,000	84
Stachybotrys	-	7	13	13	27	60	5	7	13	13	33	67	4
Torula	-	8	13	13	40	67	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	160	13	33	80	210	320	67	25	53	110	360	690	71
Basidiospores	530	40	53	160	370	630	92	53	80	260	990	2,300	93
Rusts	-	13	13	13	40	67	25	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	110	13	13	40	93	160	70	13	13	40	110	210	68
§ TOTAL SPORES/m3	2,500												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

EMLab P&K
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(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-04-2014
Date of Receipt: 08-05-2014
Date of Report: 08-06-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21408001-1 TM01 OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	40	7 - 33 - 600	45
Ascospores	160	13 - 210 - 5,900	76
Basidiospores	530	19 - 450 - 24,000	92
Chaetomium	40	7 - 13 - 160	9
Cladosporium	1,500	27 - 470 - 10,000	90
Curvularia	53	7 - 27 - 590	17
Penicillium/Aspergillus types	53	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes	110	7 - 53 - 930	63
Total	2,500		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21408001-1 TM02

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 4 Result: 5.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.5455	dF: 8 Result: -0.1905 Critical value: 0.6190 Outside Similar: No	Score: 108 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	13
Penicillium/Aspergillus types	53
Smuts, Periconia, Myxomycetes	13
Total	80

Location: 21408001-1 TM03

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 5.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 13

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Date of Sampling: 08-04-2014
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Date of Report: 08-06-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21408001-1 TM04

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 5.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.3929 Critical value: 0.6190 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Smuts, Periconia, Myxomycetes	27
Total	27

Location: 21408001-1 TM05

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 5.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

Location: 21408001-1 TM06

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 5.0667 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Re: 21408001-1

Date of Sampling: 08-04-2014
Date of Receipt: 08-05-2014
Date of Report: 08-06-2014

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21408001-1 TM01 OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		3	40
Bipolaris/Drechslera group		ND	< 13
Chaetomium		3	40
Cladosporium		29	1,500
Curvularia		4	53
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		1	53
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		3	160
Basidiospores		10	530
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		8	110
Total			**2,533**

Location: 21408001-1 TM02

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		105
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		1	53		108
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		102
Total			**80**	**Final MoldSCORE**	**108**

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Date of Report: 08-06-2014

MoldSCORE™: Spore Trap Report

Location: 21408001-1 TM03

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

Location: 21408001-1 TM04

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		2	27		105
Total			**27**	**Final MoldSCORE**	**105**

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Re: 21408001-1

Date of Sampling: 08-04-2014
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Date of Report: 08-06-2014

MoldSCORE™: Spore Trap Report

Location: 21408001-1 TM05

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

Location: 21408001-1 TM06

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

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Re: 21408001-1

Date of Sampling: 08-04-2014
Date of Receipt: 08-05-2014
Date of Report: 08-06-2014

MoldSCORE™: Spore Trap Report

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21408001-1
EML ID: 1249822

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 08-21-2014

Service SOPs: Spore trap analysis (1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-19-2014
Date of Receipt: 08-20-2014
Date of Report: 08-21-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21408001-1 TM07OUT		21408001-1 TM08		21408001-1 TM09		21408001-1 TM10	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	5686214-1		5686215-1		5686216-1		5686217-1	
Analysis Date:	08/21/2014		08/21/2014		08/21/2014		08/21/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	18	240			1	13	1	13
Ascospores	19	1,000						
Basidiospores	27	1,400						
Chaetomium								
Cladosporium	83	4,400					1	53
Curvularia								
Epicoccum	1	13						
Fusarium								
Myrothecium								
Nigrospora								
Oidium	4	53						
Other colorless							1	13
Penicillium/Aspergillus types†	1	53						
Pithomyces								
Rusts								
Smuts, Periconia, Myxomycetes	13	170						
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	2+		2+		1+		2+	
Hyphal fragments/m3	150		< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		< 1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		7,400		< 13		13		80

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Date of Sampling: 08-19-2014
Date of Receipt: 08-20-2014
Date of Report: 08-21-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21408001-1 TM11		21408001-1 TM12		21408001-1 TM13	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5686218-1		5686219-1		5686220-1	
Analysis Date:	08/21/2014		08/21/2014		08/21/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria						
Ascospores						
Basidiospores						
Chaetomium						
Cladosporium					1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Oidium					1	13
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes						
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		< 13		< 13		67

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Date of Sampling: 08-19-2014
Date of Receipt: 08-20-2014
Date of Report: 08-21-2014

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21408001-1 TM07OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California† (n‡=17975)						Typical Outdoor Data for: The entire year in California† (n‡=200698)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	240	13	13	27	53	93	59	13	13	27	67	110	53
Bipolaris/Drechslera group	-	9	13	13	27	50	16	7	13	13	27	40	12
Chaetomium	-	10	13	13	27	53	24	8	13	13	27	47	19
Cladosporium	4,400	160	270	690	1,600	2,500	99	110	210	610	1,600	2,800	97
Curvularia	-	8	13	13	27	53	12	7	13	13	27	53	6
Epicoccum	13	8	13	13	27	53	22	8	13	13	33	53	19
Nigrospora	-	7	13	13	27	53	12	7	13	13	27	53	8
Other colorless	-	11	13	13	33	53	5	10	13	13	27	53	5
Penicillium/Aspergillus types	53	53	110	270	670	1,100	88	53	100	210	590	1,000	84
Stachybotrys	-	7	13	13	27	60	5	7	13	13	33	67	4
Torula	-	8	13	13	40	67	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	1,000	13	33	80	210	320	67	25	53	110	360	690	71
Basidiospores	1,400	40	53	160	370	630	92	53	80	260	990	2,300	93
Oidium	53	13	13	13	40	67	19	13	13	13	44	75	19
Rusts	-	13	13	13	40	67	25	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	170	13	13	40	93	160	70	13	13	40	110	210	68
§ TOTAL SPORES/m3	7,400												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

EMLab P&K
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(866) 888-6653 Fax (650) 829-5852 www.emlab.com

Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-19-2014
Date of Receipt: 08-20-2014
Date of Report: 08-21-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21408001-1 TM07OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	240	7 - 33 - 600	45
Ascospores	1,000	13 - 210 - 5,900	76
Basidiospores	1,400	19 - 450 - 24,000	92
Cladosporium	4,400	27 - 460 - 10,000	90
Epicoccum	13	7 - 20 - 330	24
Oidium	53	7 - 13 - 210	11
Penicillium/Aspergillus types	53	13 - 170 - 2,700	68
Smuts, Periconia, Myxomycetes	170	7 - 53 - 920	63
Total	7,400		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21408001-1 TM08

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 5.1429 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 13

Location: 21408001-1 TM09

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 5.1429 Critical value: 11.0705 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.3869 Critical value: 0.6190 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	13
Total	13

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Re: 21408001-1

Date of Sampling: 08-19-2014
Date of Receipt: 08-20-2014
Date of Report: 08-21-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21408001-1 TM10

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 5 Result: 5.1429 Critical value: 11.0705 Inside Similar: Yes	Result: 0.3636	dF: 9 Result: 0.3208 Critical value: 0.5833 Outside Similar: No	Score: 109 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Alternaria	13
Cladosporium	53
Other colorless	13
Total	80

Location: 21408001-1 TM11

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 5.1429 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

Location: 21408001-1 TM12

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 5.1429 Critical value: 11.0705 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

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Re: 21408001-1

Date of Sampling: 08-19-2014
Date of Receipt: 08-20-2014
Date of Report: 08-21-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21408001-1 TM13

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 5.1429 Critical value: 11.0705 Inside Similar: Yes	Result: 0.4000	dF: 8 Result: 0.4226 Critical value: 0.6190 Outside Similar: No	Score: 101 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	53
Oidium	13
Total	67

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor ranges" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. With the statistical analysis provided, as with all statistical comparisons and analyses, false-positive and false-negative results can and do occur. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-19-2014
Date of Receipt: 08-20-2014
Date of Report: 08-21-2014

MoldSCORE™: Spore Trap Report

Outdoor Sample: 21408001-1 TM07OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		18	240
Bipolaris/Drechslera group		ND	< 13
Chaetomium		ND	< 13
Cladosporium		83	4,400
Curvularia		ND	< 13
Epicoccum		1	13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		1	53
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		19	1,000
Basidiospores		27	1,400
Oidium		4	53
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		13	170
Total			**7,413**

Location: 21408001-1 TM08

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-19-2014
Date of Receipt: 08-20-2014
Date of Report: 08-21-2014

MoldSCORE™: Spore Trap Report

Location: 21408001-1 TM09

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		105
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**13**	**Final MoldSCORE**	**105**

Location: 21408001-1 TM10

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		104
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other colorless		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**80**	**Final MoldSCORE**	**109**

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Re: 21408001-1

Date of Sampling: 08-19-2014
Date of Receipt: 08-20-2014
Date of Report: 08-21-2014

MoldSCORE™: Spore Trap Report

Location: 21408001-1 TM11

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

Location: 21408001-1 TM12

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-19-2014
Date of Receipt: 08-20-2014
Date of Report: 08-21-2014

MoldSCORE™: Spore Trap Report

Location: 21408001-1 TM13

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		101
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Oidium		1	13		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**67**	**Final MoldSCORE**	**101**

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21408001-1
EML ID: 1251553

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 08-26-2014

Service SOPs: Spore trap analysis (1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-25-2014
Date of Receipt: 08-25-2014
Date of Report: 08-26-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21408001-1 TM14 OUT		21408001-1 TM15		21408001-1 TM16	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5694112-1		5694113-1		5694114-1	
Analysis Date:	08/26/2014		08/26/2014		08/26/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	1	13				
Ascospores						
Basidiospores						
Bipolaris/Drechslera group						
Botrytis						
Chaetomium	3	40				
Cladosporium	12	640			1	53
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown					1	13
Other colorless						
Penicillium/Aspergillus types†	20	1,100				
Pithomyces						
Rusts	1	13				
Smuts, Periconia, Myxomycetes	31	410				
Stachybotrys	1	13				
Stemphylium						
Torula						
Ulocladium						
Background debris (1-4+)††	2+		1+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	40		< 13		< 13	
Skin cells (1-4+)	< 1+		< 1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		2,200		< 13		67

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-25-2014
Date of Receipt: 08-25-2014
Date of Report: 08-26-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21408001-1 TM17		21408001-1 TM18		21408001-1 TM19	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5694115-1		5694116-1		5694117-1	
Analysis Date:	08/26/2014		08/26/2014		08/26/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13
Ascospores						
Basidiospores						
Bipolaris/Drechslera group						
Botrytis						
Chaetomium						
Cladosporium			1	53		
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown						
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts						
Smuts, Periconia, Myxomycetes					1	13
Stachybotrys						
Stemphylium						
Torula						
Ulocladium						
Background debris (1-4+)††	2+		2+		2+	
Hyphal fragments/m3	< 13		< 13		< 13	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		< 13		53		27

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-25-2014
Date of Receipt: 08-25-2014
Date of Report: 08-26-2014

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21408001-1 TM14 OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California† (n‡=17975)						Typical Outdoor Data for: The entire year in California† (n‡=200698)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	13	13	13	27	53	93	59	13	13	27	67	110	53
Bipolaris/Drechslera group	-	9	13	13	27	50	16	7	13	13	27	40	12
Chaetomium	40	10	13	13	27	53	24	8	13	13	27	47	19
Cladosporium	640	160	270	690	1,600	2,500	99	110	210	610	1,600	2,800	97
Curvularia	-	8	13	13	27	53	12	7	13	13	27	53	6
Nigrospora	-	7	13	13	27	53	12	7	13	13	27	53	8
Other brown	-	13	13	13	40	53	35	13	13	13	40	53	34
Penicillium/Aspergillus types	1,100	53	110	270	670	1,100	88	53	100	210	590	1,000	84
Stachybotrys	13	7	13	13	27	60	5	7	13	13	33	67	4
Torula	-	8	13	13	40	67	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	-	13	33	80	210	320	67	25	53	110	360	690	71
Basidiospores	-	40	53	160	370	630	92	53	80	260	990	2,300	93
Rusts	13	13	13	13	40	67	25	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	410	13	13	40	93	160	70	13	13	40	110	210	68
§ TOTAL SPORES/m3	2,200												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Re: 21408001-1

Date of Sampling: 08-25-2014
Date of Receipt: 08-25-2014
Date of Report: 08-26-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21408001-1 TM14 OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	13	7 - 33 - 600	45
Ascospores	< 13	13 - 210 - 5,900	76
Basidiospores	< 13	19 - 450 - 24,000	92
Chaetomium	40	7 - 13 - 160	9
Cladosporium	640	27 - 460 - 10,000	90
Penicillium/Aspergillus types	1,100	13 - 170 - 2,700	68
Rusts	13	7 - 20 - 360	20
Smuts, Periconia, Myxomycetes	410	7 - 53 - 920	63
Stachybotrys	13	7 - 13 - 570	2
Total	2,200		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21408001-1 TM15

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 2.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 13

Location: 21408001-1 TM16

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 2.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2222	dF: 8 Result: 0.2083 Critical value: 0.6190 Outside Similar: No	Score: 105 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	53
Other brown	13
Total	67

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Re: 21408001-1

Date of Sampling: 08-25-2014
Date of Receipt: 08-25-2014
Date of Report: 08-26-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21408001-1 TM17

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 4 Result: 2.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
None Detected	< 13

Location: 21408001-1 TM18

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 2%	dF: 4 Result: 2.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.2500	dF: 7 Result: 0.5982 Critical value: 0.6786 Outside Similar: No	Score: 102 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Cladosporium	53
Total	53

Location: 21408001-1 TM19

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 4 Result: 2.5000 Critical value: 9.4877 Inside Similar: Yes	Result: 0.4444	dF: 7 Result: 0.0982 Critical value: 0.6786 Outside Similar: No	Score: 107 Result: Low

Species Detected	Spores/m3 <100 1K 10K >100K
Alternaria	13
Smuts, Periconia, Myxomycetes	13
Total	27

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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Re: 21408001-1

Date of Sampling: 08-25-2014
Date of Receipt: 08-25-2014
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MoldSCORE™: Spore Trap Report

Outdoor Sample: 21408001-1 TM14 OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		1	13
Bipolaris/Drechslera group		ND	< 13
Chaetomium		3	40
Cladosporium		12	640
Curvularia		ND	< 13
Nigrospora		ND	< 13
Penicillium/Aspergillus types†		20	1,100
Stachybotrys		1	13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		ND	< 13
Basidiospores		ND	< 13
Rusts		1	13
Smuts, Periconia, Myxomycetes		31	410
Total			**2,200**

Location: 21408001-1 TM15

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

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Date of Receipt: 08-25-2014
Date of Report: 08-26-2014

MoldSCORE™: Spore Trap Report

Location: 21408001-1 TM16

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**67**	**Final MoldSCORE**	**105**

Location: 21408001-1 TM17

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

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Date of Receipt: 08-25-2014
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MoldSCORE™: Spore Trap Report

Location: 21408001-1 TM18

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		1	53		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**53**	**Final MoldSCORE**	**102**

Location: 21408001-1 TM19

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		1	13		105
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		102
Total			**27**	**Final MoldSCORE**	**107**

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Re: 21408001-1

Date of Sampling: 08-25-2014
Date of Receipt: 08-25-2014
Date of Report: 08-26-2014

MoldSCORE™: Spore Trap Report

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

EMLab P&K
A TestAmerica Company

Report for:

Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Hygiene Technologies International, Inc.
3625 Del Amo Boulevard, Suite 180
Torrance, CA 90503-8370

Regarding: Project: 21408001-1
EML ID: 1254802

Approved by:

Technical Manager
Melissa Tracey

Dates of Analysis:
Spore trap analysis: 09-03-2014

Service SOPs: Spore trap analysis (1038)
AIHA-LAP, LLC accredited service, Lab ID #179768

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-29-2014
Date of Receipt: 09-02-2014
Date of Report: 09-03-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21408001-1 TM20OUT		21408001-1 TM21		21408001-1 TM22		21408001-1 TM23	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	5708971-1		5708972-1		5708973-1		5708974-1	
Analysis Date:	09/03/2014		09/03/2014		09/03/2014		09/03/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria	6	80	4	53			3	40
Ascospores	4	210						
Basidiospores	10	530						
Chaetomium	1	13	4	53				
Cladosporium	71	3,800	5	270	3	160	5	270
Curvularia	1	13						
Epicoccum								
Myrothecium								
Nigrospora								
Other brown	1	13			1	13	1	13
Other colorless								
Penicillium/Aspergillus types†	7	370						
Pithomyces	2	27						
Rusts								
Smuts, Periconia, Myxomycetes					1	13		
Stachybotrys								
Stemphylium								
Torula								
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		2+		2+		2+	
Hyphal fragments/m3	67		< 13		< 13		< 13	
Pollen/m3	230		< 13		< 13		27	
Skin cells (1-4+)	1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
§ TOTAL SPORES/m3		5,100		370		190		320

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

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Date of Sampling: 08-29-2014
Date of Receipt: 09-02-2014
Date of Report: 09-03-2014

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	21408001-1 TM24		21408001-1 TM25		21408001-1 TM26	
Comments (see below)	None		None		None	
Lab ID-Version‡:	5708975-1		5708976-1		5709015-1	
Analysis Date:	09/03/2014		09/03/2014		09/03/2014	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria			2	27	3	40
Ascospores					2	110
Basidiospores			1	53	1	53
Chaetomium						
Cladosporium					4	210
Curvularia					1	13
Epicoccum					1	13
Fusarium						
Myrothecium						
Nigrospora						
Other brown					1	13
Other colorless						
Penicillium/Aspergillus types†						
Pithomyces						
Rusts					1	13
Smuts, Periconia, Myxomycetes					2	27
Stachybotrys						
Stemphylium						
Torula					1	13
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	1+		2+		2+	
Hyphal fragments/m3	< 13		< 13		13	
Pollen/m3	< 13		13		13	
Skin cells (1-4+)	< 1+		1+		1+	
Sample volume (liters)	75		75		75	
§ TOTAL SPORES/m3		< 13		80		510

Comments:

Spore types listed without a count or data entry were not detected during the course of the analysis for the respective sample.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher then reported. It is important to account for samples volumes when evaluating dust levels.

The analytical sensitivity is the spores/m3 divided by the raw count. The limit of detection is the analytical sensitivity multiplied by the sample volume divided by 1000.

For more information regarding analytical sensitivity, please contact QA by calling the laboratory.
‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".
§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

EMLab P&K
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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-29-2014
Date of Receipt: 09-02-2014
Date of Report: 09-03-2014

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 21408001-1 TM20OUT

Fungi Identified	Outdoor data	Typical Outdoor Data for: August in California† (n‡=17975)						Typical Outdoor Data for: The entire year in California† (n‡=200698)					
	spores/m3	very low	low	med	high	very high	freq %	very low	low	med	high	very high	freq %
Generally able to grow indoors*													
Alternaria	80	13	13	27	53	93	59	13	13	27	67	110	53
Bipolaris/Drechslera group	-	9	13	13	27	50	16	7	13	13	27	40	12
Chaetomium	13	10	13	13	27	53	24	8	13	13	27	47	19
Cladosporium	3,800	160	270	690	1,600	2,500	99	110	210	610	1,600	2,800	97
Curvularia	13	8	13	13	27	53	12	7	13	13	27	53	6
Epicoccum	-	8	13	13	27	53	22	8	13	13	33	53	19
Nigrospora	-	7	13	13	27	53	12	7	13	13	27	53	8
Other brown	13	13	13	13	40	53	35	13	13	13	40	53	34
Penicillium/Aspergillus types	370	53	110	270	670	1,100	88	53	100	210	590	1,000	84
Pithomyces	27	7	13	13	27	53	6	7	13	13	27	53	4
Stachybotrys	-	7	13	13	27	60	5	7	13	13	33	67	4
Torula	-	8	13	13	40	67	14	8	13	13	40	67	12
Seldom found growing indoors**													
Ascospores	210	13	33	80	210	320	67	25	53	110	360	690	71
Basidiospores	530	40	53	160	370	630	92	53	80	260	990	2,300	93
Rusts	-	13	13	13	40	67	25	13	13	13	53	80	26
Smuts, Periconia, Myxomycetes	-	13	13	40	93	160	70	13	13	40	110	210	68
§ TOTAL SPORES/m3	5,100												

†The 'Typical Outdoor Data' represents the typical outdoor spore levels for the location and time frame indicated. The last column represents the frequency of occurrence. The very low, low, med, high, and very high values represent the 10, 20, 50, 80, and 90 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 20% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

§ Total Spores/m3 has been rounded to two significant figures to reflect analytical precision.

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

‡n = number of samples used to calculate data.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

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Client: Hygiene Technologies International, Inc.
C/O: Mr. Kenny Hsi, Mr. Lakhpreet Sandhu
Re: 21408001-1

Date of Sampling: 08-29-2014
Date of Receipt: 09-02-2014
Date of Report: 09-03-2014

MoldSTAT™: Supplementary Statistical Spore Trap Report

Outdoor Summary: 21408001-1 TM20OUT:

Species detected	Outdoor sample spores/m3 (<100 / 1K / 10K / >100K)	Typical outdoor ranges (North America)	Freq. %
Alternaria	80	7 - 33 - 600	45
Ascospores	210	13 - 210 - 5,900	76
Basidiospores	530	19 - 450 - 24,000	92
Chaetomium	13	7 - 13 - 160	9
Cladosporium	3,800	27 - 460 - 10,000	90
Curvularia	13	7 - 27 - 590	17
Other brown	13	7 - 13 - 130	23
Penicillium/Aspergillus types	370	13 - 170 - 2,700	68
Pithomyces	27	7 - 20 - 590	15
Smuts, Periconia, Myxomycetes	< 13	7 - 53 - 920	63
Total	5,100		

The "Typical outdoor ranges" and "Freq. %" columns show the typical low, medium, and high spore counts per cubic meter and the frequency of occurrence for the given spore type. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values when the spore type is detected. For example, if the low value is 53 and the frequency of occurence is 63%, it would mean that we typically detect the given spore type on 63 percent of all outdoor samples and, when detected, 2.5% of the time it is present in levels below 53 spores/m3.

Indoor Samples

Location: 21408001-1 TM21

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 7%	dF: 5 Result: 14.0260 Critical value: 11.0705 Inside Similar: No	Result: 0.5000	dF: 9 Result: 0.3333 Critical value: 0.5833 Outside Similar: No	Score: 179 Result: Medium

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	53
Chaetomium	53
Cladosporium	270
Total	370

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21408001-1 TM22

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 3%	dF: 5 Result: 14.0260 Critical value: 11.0705 Inside Similar: No	Result: 0.3333	dF: 10 Result: 0.1303 Critical value: 0.5515 Outside Similar: No	Score: 108 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Cladosporium	160
Other brown	13
Smuts, Periconia, Myxomycetes	13
Total	190

Location: 21408001-1 TM23

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 6%	dF: 5 Result: 14.0260 Critical value: 11.0705 Inside Similar: No	Result: 0.5000	dF: 9 Result: 0.3542 Critical value: 0.5833 Outside Similar: No	Score: 118 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	40
Cladosporium	270
Other brown	13
Total	320

Location: 21408001-1 TM24

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: < 1%	dF: 5 Result: 14.0260 Critical value: 11.0705 Inside Similar: No	Result: 0.0000	dF: N/A Result: N/A Critical value: N/A Outside Similar: N/A	Score: 100 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
None Detected	< 13

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MoldSTAT™: Supplementary Statistical Spore Trap Report

Location: 21408001-1 TM25

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 1%	dF: 5 Result: 14.0260 Critical value: 11.0705 Inside Similar: No	Result: 0.3636	dF: 9 Result: 0.5000 Critical value: 0.5833 Outside Similar: No	Score: 110 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	27
Basidiospores	53
Total	80

Location: 21408001-1 TM26

% of outdoor total spores/m3	Friedman chi-square* (indoor variation)	Agreement ratio** (indoor/outdoor)	Spearman rank correlation*** (indoor/outdoor)	MoldSCORE**** (indoor/outdoor)
Result: 9%	dF: 5 Result: 14.0260 Critical value: 11.0705 Inside Similar: No	Result: 0.6316	dF: 13 Result: 0.4011 Critical value: 0.4780 Outside Similar: No	Score: 135 Result: Low

Species Detected	Spores/m3 (<100 / 1K / 10K / >100K)
Alternaria	40
Ascospores	110
Basidiospores	53
Cladosporium	210
Curvularia	13
Epicoccum	13
Other brown	13
Rusts	13
Smuts, Periconia, Myxomycetes	27
Torula	13
Total	510

* The Friedman chi-square statistic is a non-parametric test that examines variation in a set of data (in this case, all indoor spore counts). The null hypothesis (H0) being tested is that there is no meaningful difference in the data for all indoor locations. The alternative hypothesis (used if the test disproves the null hypothesis) is that there is a difference between the indoor locations. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

** An agreement ratio is a simple method for assessing the similarity of two samples (in this case the indoor sample and the outdoor summary) based on the spore types present. A score of one indicates that the types detected in one location are the same as that in the other. A score of zero indicates that none of the types detected indoors are present outdoors. Typically, an agreement of 0.8 or higher is considered high.

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MoldSTAT™: Supplementary Statistical Spore Trap Report

*** The Spearman rank correlation is a non-parametric test that examines correlation between two sets of data (in this case the indoor location and the outdoor summary). The null hypothesis (H0) being tested is that the indoor and outdoor samples are unrelated. The alternative hypothesis (used if the test disproves the null hypothesis) is that the samples are similar. The null hypothesis is rejected when the result of the test is greater than the critical value. The critical value that is displayed is based on the degrees of freedom (dF) of the test and a significance level of 0.05.

**** MoldSCORE™ is a specialized method for examining air sampling data. It is a score between 100 and 300, with 100 indicating a greater likelihood that the airborne indoor spores originated from the outside, and 300 indicating a greater likelihood that they originated from an inside source. The Result displayed is based on the numeric score given and will be either Low, Medium, or High, indicating a low, medium, or high likelihood that the spores detected originated from an indoor source. EMLab P&Kreserves the right to, and may at anytime, modify or change the MoldScore algorithm without notice.

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MoldSCORE™: Spore Trap Report

Outdoor Sample: 21408001-1 TM20OUT

Fungi Identified	Outdoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3
Generally able to grow indoors*			
Alternaria		6	80
Bipolaris/Drechslera group		ND	< 13
Chaetomium		1	13
Cladosporium		71	3,800
Curvularia		1	13
Nigrospora		ND	< 13
Other brown		1	13
Penicillium/Aspergillus types†		7	370
Pithomyces		2	27
Stachybotrys		ND	< 13
Torula		ND	< 13
Seldom found growing indoors**			
Ascospores		4	210
Basidiospores		10	530
Rusts		ND	< 13
Smuts, Periconia, Myxomycetes		ND	< 13
Total			**5,053**

Location: 21408001-1 TM21

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300 Score
Generally able to grow indoors*				
Alternaria		4	53	119
Bipolaris/Drechslera group		ND	< 13	100
Chaetomium		4	53	179
Cladosporium		5	270	100
Curvularia		ND	< 13	100
Nigrospora		ND	< 13	100
Penicillium/Aspergillus types†		ND	< 13	100
Stachybotrys		ND	< 13	100
Torula		ND	< 13	100
Seldom found growing indoors**				
Ascospores		ND	< 13	100
Basidiospores		ND	< 13	100
Rusts		ND	< 13	100
Smuts, Periconia, Myxomycetes		ND	< 13	100
Total			**373**	**Final MoldSCORE** **179**

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MoldSCORE™: Spore Trap Report

Location: 21408001-1 TM22

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		3	160		101
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		1	13		103
Total			**187**	**Final MoldSCORE**	**108**

Location: 21408001-1 TM23

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		3	40		114
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		5	270		102
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**320**	**Final MoldSCORE**	**118**

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MoldSCORE™: Spore Trap Report

Location: 21408001-1 TM24

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		ND	< 13		100
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		ND	< 13		100
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**N/A**	**Final MoldSCORE**	**100**

Location: 21408001-1 TM25

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		2	27		110
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		ND	< 13		100
Curvularia		ND	< 13		100
Nigrospora		ND	< 13		100
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		ND	< 13		100
Seldom found growing indoors**					
Ascospores		ND	< 13		100
Basidiospores		1	53		105
Rusts		ND	< 13		100
Smuts, Periconia, Myxomycetes		ND	< 13		100
Total			**80**	**Final MoldSCORE**	**110**

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MoldSCORE™: Spore Trap Report

Location: 21408001-1 TM26

Fungi Identified	Indoor sample spores/m3 <100 1K 10K >100K	Raw count	Spores/ m3	MoldSCORE‡ 100 200 300	Score
Generally able to grow indoors*					
Alternaria		3	40		113
Bipolaris/Drechslera group		ND	< 13		100
Chaetomium		ND	< 13		100
Cladosporium		4	210		100
Curvularia		1	13		105
Epicoccum		1	13		105
Nigrospora		ND	< 13		100
Other brown		1	13		105
Penicillium/Aspergillus types†		ND	< 13		100
Stachybotrys		ND	< 13		100
Torula		1	13		105
Seldom found growing indoors**					
Ascospores		2	110		135
Basidiospores		1	53		100
Rusts		1	13		105
Smuts, Periconia, Myxomycetes		2	27		105
Total			**507**	**Final MoldSCORE**	**135**

* The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.
** These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

†The spores of Aspergillus and Penicillium (and others such as Acremonium, Paecilomyces) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods.

‡Rated on a scale from 100 to 300. A rating less than 150 is low and indicates a low probability of spores originating inside. A rating greater than 250 is high and indicates a high probability that the spores originated from inside, presumably from indoor mold growth. A rating between 150 and 250 indicates a moderate likelihood of indoor fungal growth. MoldSCORE is NOT intended for wall cavity samples. It is intended for ambient air samples in residences. Using the analysis on other samples (like wall cavity samples) will lead to misleading results.

HYGIENE TECH
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(310) 370-8370
(310) 370-2474 FAX
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Request For Analysis

Project Number/~~Purchase Order~~: 2140800[-1 Date Submitted: 8/5/14

Project Contact: L.Sandhu / K.Hsi Turnaround Required: STANDARD

Lab Destination: EMLAB @ 8K Lab Contact: SAMPLE RECEIVING

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
2140800[-1TM01	75L	Air-O-Cell	SporeTrap Analysis (Total Fungi)
2140800[-1TM02	75L	Air-O-Cell	
2140800[-1TM03	75L	Air-O-Cell	
2140800[-1TM04	75L	Air-O-Cell	
2140800[-1TM05	75L	Air-O-Cell	
2140800[-1TM06	75L	Air-O-Cell	

~~Special Instructions~~: @ T-note Random Sampling (Round-1)

1. **Sampled by:** Sandhu on 08/4/14 @ 14:4[illegible] **Received by:** [illegible] on 08/04/14 1725
2. **Relinquished by:** Sandhu on 08/5/14 @ [illegible] **Received by:**
3. **Relinquished by:** **Received by:**

Please include signature, date, and time

Lab Use Only:

HYGIENE TECH

Hygiene Technologies International, Inc.

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...te 180
...rrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/~~Purchase Order~~: 21408001-1 Date Submitted: 08/20/14

Project Contact: L.Sandhu / K.Lsi Turnaround Required: Normal

Lab Destination: EMLAB P&K. Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
21408001-1TMQ7out	75L	Air-o-Cell	Spore Trap Analysis (Total Fungi)
21408001-1TM08	75L	Air-o-Cell	↓
21408001-1TM09	75L	Air-o-Cell	↓
21408001-1TM10	75L	Air-o-Cell	↓
21408001-1TM11	75L	Air-o-Cell	↓
21408001-1TM12	75L	Air-o-Cell	↓
21408001-1TM13	75L	Air-o-Cell	↓

~~Special Instructions~~ Lyvute: Random Sampling (Round-2)

1. Sampled by: LSandhu on 08/19/14 @ 15:03 Received by: [signature] 1235 08/20/14
2. Relinquished by: LSandhu on 08/20/14 @ 12:15 Received by:
3. Relinquished by: Received by:

Please include signature, date, and time

Lab Use Only:

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Hygiene Technologies International, Inc.

362 001251553

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Request For Analysis

Project Number/~~Purchase Order~~: 2140800[-1 Date Submitted: 8/25/14

Project Contact: L. Sandhu / IC hsi Turnaround Required: Normal

Lab Destination: EMLAB P&K Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
2140800[-1 TM14 OUT	75L	Air-O-Cell	Spore Trap Analysis (Total Fungi)
2140800[-1 TM15	75L	Air-O-Cell	
2140800[-1 TM16	75L	Air-O-Cell	
2140800[-1 TM17	75L	Air-O-Cell	
2140800[-1 TM18	75L	Air-O-Cell	
2140800[-1 TM19	75L	Air-O-Cell	

~~Special Instructions~~: Random Sampling (Round-3)

1. **Sampled by:** #Sandhu on 08/25/14 @ 08:50 **Received by:** 8/29/14 @ 1230
2. **Relinquished by:** #Sandhu on 08/25/14 @ 12:10 **Received by:**
3. **Relinquished by:** **Received by:**

Please include signature, date, and time

Lab Use Only:

HYGIENE TECH

Hygiene Technologies International, Inc.

001254802

...ford, Suite 180
Torrance, California 90503-1643
(310) 370-8370
(310) 370-2474 FAX
www.hygienetech.com

Request For Analysis

Project Number/~~Purchase Order~~: 2140800l-1 Date Submitted: 08/29/14

Project Contact: L. Sandhu / K. Lisi Turnaround Required: Normal

Lab Destination: EMLAB P&K Lab Contact: Sample Receiving

SAMPLE ID	VOLUME	MEDIA	ANALYSIS REQUESTED
2140800l-1 TM200H	75L	Air-o-cell	Spore Trap Analysis (Total Fungi)
2140800l-1 TM21	75L	Air-o-cell	
2140800l-1 TM22	75L	Air-o-cell	
2140800l-1 TM23	75L	Air-o-cell	
2140800l-1 TM24	75L	Air-o-cell	
2140800l-1 TM25	75L	Air-o-cell	
2140800l-1 TM26	75L	Air-o-cell	

~~Special Instructions~~: E-Mail Random Sampling (Round 2-4)

1. **Sampled by:** #Sandhu on 8/29/14 @ 15:57
2. **Relinquished by:** #Sandhu on 8/29/14 @ 17:15 **Received by:**
3. **Relinquished by:** **Received by:**

Please include signature, date, and time

Lab Use Only: